

## MISSOURI CLEAN WATER COMMISSION



Mohamad Alhalabi, P.E., Director, St. Louis Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 2 of 5	
					PERMIT NUMBER MO-0109401	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	instantaneous once/quarter**	estimate
Rainfall	inches	*		*	daily measurement	***
BETX	mg/L	0.75		0.75	once/quarter**	grab
Biochemical Oxygen Demand <sub>5</sub>	mg/L	60		45	once/quarter**	grab
Chemical Oxygen Demand	mg/L	120		90	once/quarter**	grab
Total Suspended Solids	mg/L	80		60	once/quarter**	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter**	grab
Total Dissolved Solids	mg/L	*		*	once/quarter**	grab
Conductivity (Specific Conductance)	umhos/cm 25°	*		*	once/quarter**	grab
Chloride Plus Sulfates	mg/L	1000		*	once/quarter**	grab
Iron, Total Recoverable	mg/L	*		*	once/quarter**	grab
pH - Units	SU	****		****	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2003</u> .						
Calcium	mg/L	*		*	once/year*****	grab
Fluoride	µg/L	*		*	once/year*****	grab
Total Hardness	µg/L	*		*	once/year*****	grab
Barium, Total Recoverable	µg/L	*		*	once/year*****	grab
Boron, Total Recoverable	µg/L	*		*	once/year*****	grab
Cadmium, Total Recoverable	µg/L	*		*	once/year*****	grab
Chromium, Total Recoverable	µg/L	*		*	once/year*****	grab
Cobalt, Total Recoverable	µg/L	*		*	once/year*****	grab
Copper, Total Recoverable	µg/L	*		*	once/year*****	grab
Sodium, Total Recoverable	µg/L	*		*	once/year*****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
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<u>Outfall #001</u> (continued)						
Ammonia as N	mg/L	*****		*****	once/year*****	grab
Nitrate and Nitrite as N	mg/L	*		*	once/year*****	grab
Phosphorus, Total Recoverable	mg/L	*		*	once/year*****	grab
Mercury, Total Recoverable	µg/L	*		*	once/year*****	grab
Arsenic, Total Recoverable	µg/L	*		*	once/year*****	grab
Lead, Total Recoverable	µg/L	*		*	once/year*****	grab
Selenium, Total Recoverable	µg/L	*		*	once/year*****	grab
Silver, Total Recoverable	µg/L	*		*	once/year*****	grab
Manganese, Total Recoverable	µg/L	*		*	once/year*****	grab
Magnesium, Total Recoverable	µg/L	*		*	once/year*****	grab
Zinc, Total Recoverable	µg/L	*		*	once/year*****	grab
Antimony, Total Recoverable	µg/L	*		*	once/year*****	grab
Beryllium, Total Recoverable	µg/L	*		*	once/year*****	grab
Nickel, Total Recoverable	µg/L	*		*	once/year*****	grab
Sulfate	mg/L	*		*	once/year*****	grab
Thallium, Total Recoverable	µg/L	*		*	once/year*****	grab
Total Organic Carbon	mg/L	*		*	once/year*****	grab
Vanadium, Total Recoverable	µg/L	*		*	once/year*****	grab
Oil and Grease	mg/L	15		10	once/year*****	grab
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* Once per quarter in the months of February, May, August, and November.
- \*\*\* Grab samples shall be collected during a rainfall event, when there is runoff from the landfill site. The sample shall be collected no later than one hour after runoff begins.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\*\* The discharge shall not exceed the appropriate values in Table B 10 CSR 20, 7.031.
- \*\*\*\*\* Samples to be taken in August.

C. SPECIAL CONDITIONS

1. Report as no-discharge when a discharge does not occur during the report period.
2. All design and operating specifications and all Solid Waste Management Program approval conditions pertaining to water quality are hereby made a part of this permit and shall apply throughout the life of this permit without regard to other conditions, permits, occurrences, etc.
3. This permit may be reopened and modified, or alternatively revoked and reissued, to:
  - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

4. This permit does not allow the discharge of storm water that has contacted the open face of the landfill. This permit does not allow the discharge of untreated leachate. All leachate shall be handled in accordance with the Solid Waste Disposal Area Operating Permit, Report of Approval of Plans and Specifications (with conditions).

5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    - (1) One hundred micrograms per liter (100 µg/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    - (4) The level established in Part A of the permit by the Director.
  - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
6. All discharges shall comply with the Missouri Water Quality Standards, 10 CSR 20-7.031, Section (3)(C), which states (Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity...", and Section (4)(G), which states "Water contaminants shall not cause or contribute to turbidity or color that will cause substantial visible contact with the natural appearance of the stream..."
  7. All activities performed to control erosion on the landfill site (seeding, mulching, terracing, etc.) shall be described and submitted along with the second quarter and fourth quarter Discharge Monitoring Reports. If no erosion controls are undertaken, indicate so on the reports.

D. Schedule of Compliance

The City of St. Louis Demolition Landfill has consistently exceeded its limits for COD and TSS for the past two years.

The City of St. Louis shall return its stormwater outfall to compliance with the State Operating Permit effluent limitations according to the following schedule of compliance:

1. By September 30, 2003 report to the Department of Natural Resources, St. Louis Regional Office, in writing the name of the consultant who will evaluate the effluent and plan a course of action to return the facility back in compliance.  
If it is determined that a minor operational and maintenance problem is causing the noncompliance, a letter must be sent by October 31, 2003 to the St. Louis Regional Office. The letter must address the problem and the solution to bring the facility back in compliance by April 30, 2004. If it is not a minor operational and maintenance problem, then:
2. By January 31, 2004, submit an engineering report identifying the steps to improve the existing system or eliminate the discharge.
3. By April 30, 2004, submit plans and specifications and an application form with an appropriate fee for a construction permit to improve the existing system or eliminate the discharge.
4. By August 31, 2004, this project must be completed according to the approved plans and specifications.